Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

- (Currently amended) A stack of semiconductor dies, comprising:
 - a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface;

at least one first support having a first surface and an opposite second surface, wherein the at least one first support has a same thickness between its first and second surfaces as the first semiconductor die has between its active and inactive surfaces,

wherein the inactive surface of the first semiconductor die and the first surface of the at least one support are attached to the first surface of the substrate laterally adjacent to each other, and the active surface of the first semiconductor die and the second surface of the at least one first support are in a common plane;

a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a first adhesive layer,

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die and the second surface of the at least one support, is attached to the active surface of the first semiconductor die and the second surface of the at least one first support by the first adhesive layer, and does not overlap any of the bond pads of the first semiconductor die.

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Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

2. (Original) The stack of claim 1, wherein there are two same-size first supports, each adjacent to a respective one of two parallel sides of the first semiconductor die.

3. (Canceled)

4. (Original) The stack of claim 1, wherein a side of the at least one first support is spaced from a facing side of the first semiconductor die; and further comprising:

an encapsulant material covering the first surface of the substrate and the stack of the first and second semiconductor dies, and filling a volume defined between the facing sides of the at least one first support and the first semiconductor die and the first adhesive layer.

- 5. (Withdrawn) The stack of claim 1, wherein the at least one first support abuts a side of the first semiconductor die.
- 6. (Currently amended) A stack of semiconductor dies, comprising:
 - a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface;
- at least one first support having a first surface and an opposite second surface, The stack of claim 1, wherein the at least one first support is formed of a semiconductor material,

wherein the inactive surface of the first semiconductor die and the first surface of the at least one support are attached to the first surface of the substrate laterally adjacent to each other, and the active surface of the first semiconductor die and the second

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

surface of the at least one first support are in a common
plane;

a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a first adhesive layer,

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die and the second surface of the at least one support, is attached to the active surface of the first semiconductor die and the second surface of the at least one first support by the first adhesive layer, and does not overlap any of the bond pads of the first semiconductor die.

- 7. (Currently amended) \underline{A} stack of semiconductor dies, comprising:
 - a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface;
- at least one first support having a first surface and an opposite second surface, The stack of claim 1, wherein the at least one first support is formed of an elastomer film,

wherein the inactive surface of the first semiconductor die and the first surface of the at least one support are attached to the first surface of the substrate laterally adjacent to each other, and the active surface of the first semiconductor die and the second surface of the at least one first support are in a common plane;

a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a first adhesive layer,

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die and the second surface of the at least one support, is attached to the active surface of the first semiconductor die and the second surface of the at least one first support by the first adhesive layer, and does not overlap any of the bond pads of the first semiconductor die.

- 8. (Withdrawn) The stack of claim 1, wherein the at least one first support is attached to the first surface of the substrate by a hardened adhesive material, and a fillet of the adhesive material substantially fills a volume between facing sides of the first semiconductor die and the at least one first support.
- 9. (Previously presented) The stack of claim 1, wherein the first adhesive layer comprises a film.
- 10. (Original) The stack of claim 1, wherein an area of the active surface of the second semiconductor die is at least equal to an area of the active surface of the first semiconductor die.
- 11. (Currently amended) <u>A stack of semiconductor dies,</u> comprising:
 - a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface;
- at least one first support having a first surface and an opposite second surface,

wherein the inactive surface of the first semiconductor die and the first surface of the at least

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Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

one support are attached to the first surface of the substrate laterally adjacent to each other, and the active surface of the first semiconductor die and the second surface of the at least one first support are in a common plane;

a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a first adhesive layer,

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die and the second surface of the at least one support, is attached to the active surface of the first semiconductor die and the second surface of the at least one first support by the first adhesive layer, and does not overlap any of the bond pads of the first semiconductor die;

The stack of claim 1, further comprising:

at least one second support having a first surface and an opposite second surface,

wherein the first surface of the at least one second support is attached to the active surface of the first semiconductor die adjacent to the second semiconductor die and without overlapping any of the bond pads of the first semiconductor die, and the active surface of the second semiconductor die and the second surface of the at least one second support are in a common plane; and

a third semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a second adhesive layer,

wherein the third semiconductor die is stacked on the active surface of the second semiconductor die and the second surface of the at least one second support, is attached to the active surface of the second semiconductor die and the second

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

surface of the at least one second support by the second adhesive layer, and does not overlap any of the bond pads of the second semiconductor die.

- 12. (Original) The stack of claim 11, wherein there are two same-size second supports, each adjacent to a respective one of two parallel sides of the second semiconductor die.
- 13. (Original) The stack of claim 11, wherein the third semiconductor die overlaps the bond pads of the first semiconductor die.
- 14. (Withdrawn) The stack of claim 11, wherein an area of the active surface of the third semiconductor die is at least equal to an area of the active surface of the second semiconductor die.
- 15. (Withdrawn) The stack of claim 14, wherein an area of the active surface of the second semiconductor die is at least equal to an area of the active surface of the first semiconductor die.
- 16. (Withdrawn) The stack of claim 11, wherein there is only one first support and one second support.
- 17. (Original) The stack of claim 11, wherein there are a plurality of first supports and a plurality of second supports.
- 18. (Withdrawn) The stack of claim 11, wherein the third semiconductor die is laterally offset from the first semiconductor die.

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

- 19. (Original) The stack of claim 11, wherein a centerline of the third semiconductor die overlies a parallel corresponding centerline of the first semiconductor die.
- 20. (Withdrawn) The stack of claim 11, wherein the third semiconductor die does not overlap the first semiconductor die.
- 21. (Original) The stack of claim 11, wherein there are two first supports and two second supports, and the two second supports are stacked on and have their respective first surface attached to the second surface of the two first supports.
- 22. (Withdrawn) The stack of claim 11, wherein the third semiconductor die does not overlap the bond pads of the first semiconductor die.
- 23. (Currently amended) <u>A stack of semiconductor dies, comprising:</u>
 - a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface;
- at least one first support having a first surface and an opposite second surface,

wherein the inactive surface of the first semiconductor die and the first surface of the at least one support are attached to the first surface of the substrate laterally adjacent to each other, and the active surface of the first semiconductor die and the second surface of the at least one first support are in a common plane;

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a first adhesive layer,

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die and the second surface of the at least one support, is attached to the active surface of the first semiconductor die and the second surface of the at least one first support by the first adhesive layer, and does not overlap any of the bond pads of the first semiconductor die; and

The stack of claim-1, further comprising:

a third semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a second adhesive layer,

wherein the third semiconductor die is stacked on the active surface of the second semiconductor die, is attached to the active surface by the second adhesive layer, and does not overlap any of the bond pads of the second semiconductor die.

- 24. (Original) The stack of claim 23, wherein the third semiconductor die overlaps the bond pads of the first semiconductor die.
 - 25. (Original) A stack of semiconductor dies, comprising:
 - a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface attached to the first surface of the substrate by a first adhesive layer;
- a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a second adhesive layer,

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die, is attached to the active surface of the first semiconductor die by the second adhesive layer, and does not overlap any of the bond pads of the first semiconductor die;

a third semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a third adhesive layer, wherein the third semiconductor die is attached to the active surface of the second semiconductor die by the third adhesive layer and does not overlap any of the bond pads of the second semiconductor die;

at least one first support having a first surface attached to the active surface of the second semiconductor die adjacent to the third semiconductor die, and an opposite second surface that is in a common plane with the active surface of the third semiconductor die, wherein the at least one first support does not overlap any of the bond pads of the second semiconductor die; and

a fourth semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a fourth adhesive layer, wherein the fourth semiconductor die is attached to the active surface of the third semiconductor die and to the second surface of the at least one first support by the fourth adhesive layer and does not overlap any of the bond pads of the third semiconductor die.

26. (Withdrawn) The stack of claim 25, wherein the first semiconductor die comprises two laterally adjacent semiconductor dies having a common semiconductor substrate.

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

27. (Withdrawn) The stack of claim 25, wherein the first and second semiconductor dies each comprise two laterally adjacent semiconductor dies having a common semiconductor substrate.

28. (Currently amended) The stack of claim 25, further comprising:

at least one second support having a first surface attached to the active surface of the first semiconductor die adjacent to the second semiconductor die, and an opposite second surface that is in a common plane with the active surface of the third second semiconductor die, wherein the at least one second support does not overlap any of the bond pads of the first semiconductor die, and the third semiconductor die is attached to the second surface of the at least one second support by the third adhesive layer.

- 29. (Withdrawn) The stack of claim 28, wherein the first semiconductor die comprises two laterally adjacent semiconductor dies having a common semiconductor substrate.
- 30. (Original) The stack of claim 28, wherein there are two first and second supports.
- 31. (Withdrawn) The stack of claim 25, wherein the fourth semiconductor die is laterally offset from the second semiconductor die.
- 32. (Withdrawn) The stack of claim 25, wherein there is no overlap between the fourth semiconductor die and the second semiconductor die.

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

33. (Withdrawn) The stack of claim 25, wherein the first, second, third, and fourth semiconductor dies are all a same size.

- 34. (Withdrawn) The stack of claim 25, wherein a centerline of the fourth semiconductor die is centered over a parallel corresponding centerline of the third semiconductor die.
- 35. (Original) A stack of semiconductor dies, comprising: stacked first, second, and third semiconductor dies each including an active surface with at least one row of bond pads; at least one first support and at least one second

support,

wherein the first semiconductor die and the at least one first support are laterally adjacent, and are attached to a substrate surface,

wherein the second semiconductor die and the at least one second support are laterally adjacent, and are attached to the active surface of the first semiconductor die and the at least one first support without overlapping any of the bond pads of the first semiconductor die, and

wherein the third semiconductor die is attached to the active surface of the second semiconductor and the at least one second support without overlapping any of the bond pads of the second semiconductor die.

36. (Currently amended) The stack of claim 35, wherein the active surface of the second semiconductor die is at least equal in area to the active surface of the first semiconductor die.

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

37. (Withdrawn) The stack of claim 36, wherein the active surface of the third semiconductor die is at least equal in area to the active surface of the second semiconductor die.

- 38. (Withdrawn) The stack of claim 35, wherein the active surface of the third semiconductor die is at least equal in area to the active surface of the second semiconductor die.
- 39. (Original) The stack of claim 35, wherein there are two first supports and two second supports.
- 40. (Original) The stack of claim 39, wherein the second supports are stacked on the first supports.
- 41. (Original) The stack of claim 35, wherein the first semiconductor die and the at least one first support have a same thickness, and the second semiconductor die and the at least one second support have a same thickness.
- 42. (Original) The stack of claim 41, wherein the second and third semiconductor dies include an inactive surface opposite the active surface thereof, and a respective adhesive film overlies the entire inactive surface of the second and third semiconductor dies.
- 43. (Original) The stack of claim 35, wherein the second and third semiconductor dies include an inactive surface opposite the active surface thereof, and a respective adhesive film overlies the entire inactive surface of the second and third semiconductor dies.

44-45. (Canceled)

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

46. (Previously presented) A stack of semiconductor dies, comprising:

- a substrate including a first surface;
- a first semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface;

at least one first support having a first surface and an opposite second surface,

wherein the inactive surface of the first semiconductor die and the first surface of the at least one support are attached to the first surface of the substrate laterally adjacent to each other;

a second semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a first adhesive layer,

wherein the second semiconductor die is stacked on the active surface of the first semiconductor die and the second surface of the at least one first support, is attached to the active surface of the first semiconductor die and the second surface of the at least one first support by the first adhesive layer, and does not overlap any of the bond pads of the first semiconductor die;

at least one second support having a first surface and an opposite second surface,

wherein the first surface of the at least one second support are attached to the active surface of the first semiconductor die and to the second surface of the at least one first support; and

a third semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a second adhesive layer,

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

wherein the third semiconductor die is stacked on the active surface of the second semiconductor die and the second surface of the at least one second support, is attached to the active surface of the second semiconductor die and the second surface of the at least one second support by the second adhesive layer, and does not overlap any of the bond pads of the second semiconductor die.

- 47. (Previously presented) The stack of claim 46, wherein the first surface of the at least one second support is attached to the second surface of the at least one first support.
- 48. (Previously presented) The stack of claim 46, wherein there are at least two first supports and at least two second supports.
- 49. (Previously presented) The stack of claim 48, wherein the first surface of the at least one second support is coupled to the second surface of the at least one first support.
- 50. (Previously presented) The stack of claim 46, further comprising at least one additional semiconductor die stacked with the first and second semiconductor dies, wherein an active surface of at least one said additional semiconductor die is larger in area than the respective active surfaces of the first and second semiconductor dies.
- 51. (Previously presented) The stack of claim 46, further comprising:
- at least one third support having a first surface and an opposite second surface,

Amdt. dated December 22, 2004

Reply to Office Action of October 5, 2004

wherein the first surface of the at least one third support is attached to the active surface of the second semiconductor die and to the second surface of the at least one second support; and

a fourth semiconductor die having an active surface with at least one row of bond pads, and an opposite inactive surface that is entirely covered by a third adhesive layer,

wherein the fourth semiconductor die is stacked on the active surface of the third semiconductor die and the second surface of the at least one third support, is attached to the active surface of the third semiconductor die and the second surface of the at least one third support by the third adhesive layer, and does not overlap any of the bond pads of the third semiconductor die.

52. (Previously presented) The stack of claim 51, wherein the active surface of the fourth semiconductor die is greater in area than the active surface of the third semiconductor die.